

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5051	257/778	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/27 19:34
L2	2645	257/786	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/27 20:20
L3	2	"6291899".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/27 19:36
L4	3	257/e21.504	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/27 20:21
S1	18	"5731047".pn. or "5836063".pn. or "5841075".pn. or "5868950". pn. or "5888630".pn. or "5888631".pn. or "5900312".pn. or "5983974".pn. or "6011697". pn. or "6018196".pn. or "6021564".pn. or "6103992".pn. or "6127250".pn. or "6143401". pn. or "6183592".pn. or "6203891".pn. or "6248959".pn. or "20040012938".pn.	US-PGPUB; USPAT	OR	OFF	2005/06/21 03:52
S2	1	"3953566".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:25
S3	1	"4482516".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:26
S4	1	"4591659".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:26
S5	1	"4591659".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:26
S6	1	"4654248".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:26
S7	1	"4654248".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:27

## EAST Search History

S8	1	"4705762".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:27
S9	1	"4890194".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:27
S10	1	"4890194".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:28
S11	1	"4943844".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:28
S12	1	"4985296".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:28
S13	1	"5103293".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:29
S14	1	"5339217".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:29
S15	1	"5455385".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:29
S16	1	"5506756".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:29
S17	1	"5103293".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:31
S18	1	"5339217".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:31
S19	1	"5455385".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:32
S20	1	"5506756".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:32
S21	1	"5532513".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:32
S22	1	"5545473".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:32
S23	1	"5545473".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:33
S24	1	"5572405".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:33
S25	6	"6046910".pn. or "6210862".pn. or "6570245".pn. or "20010030057".pn. or "20020007964".pn. or "20020135063".pn.	US-PGPUB; USPAT	OR	OFF	2004/11/09 19:38
S26	69208	(semiconductor or chip or die or IC) and (interposer or interconnect or redistribution)	US-PGPUB; USPAT	OR	OFF	2004/11/09 19:39
S27	49710	(semiconductor or chip or die or IC) and (interposer or interconnect or redistribution)	USPAT	OR	OFF	2004/11/09 20:01

## EAST Search History

S28	7330	S27 and (ball or bump)	USPAT	OR	OFF	2004/11/09 19:41
S29	30	S28 and (interposer or interconnect or redistribution) with (metal or protect\$3) with bottom near surface	USPAT	OR	OFF	2004/11/09 19:45
S30	72	S28 and (interposer or interconnect or redistribution) with (layer or film) with bottom near surface	USPAT	OR	OFF	2004/11/09 20:02
S31	1	"6285081".PN.	USPAT; USOCR	OR	OFF	2004/11/09 19:50
S32	154740	(semiconductor or chip or die or IC) and (interposer or interconnect or redistribution or carrier)	USPAT	OR	OFF	2004/11/09 21:29
S33	16949	(semiconductor or chip or die or IC) and (interposer or interconnect or redistribution or carrier) and (ball or bump)	USPAT	OR	OFF	2004/11/09 20:02
S34	72	S33 and (interposer or interconnect or redistribution) with (layer or film) with bottom near surface	USPAT	OR	OFF	2004/11/09 20:02
S35	138	S33 and (interposer or interconnect or redistribution or carrier) with (layer or film) with bottom near surface	USPAT	OR	OFF	2004/11/09 20:14
S36	6149	S33 and "257"/\$.ccls.	USPAT	OR	OFF	2004/11/09 20:15
S37	4247	S33 and (flip near chip or "C4")	USPAT	OR	OFF	2004/11/09 20:15
S38	3001	S37 and "257"/\$.ccls.	USPAT	OR	OFF	2004/11/09 20:49
S39	292	S37 and 257/666	USPAT	OR	OFF	2004/11/09 20:16
S40	11863	S33 and (heatsink or heat neat (sink or stiffener or spreader or transfer) or ground near (plane or film or layer))	USPAT	OR	OFF	2004/11/09 20:19
S41	3868	S33 and (heatsink or heat neat (sink or stiffener or spreader or transfer) or ground near (plane or film or layer)) with surface	USPAT	OR	OFF	2004/11/09 20:19
S42	340	S33 and (heatsink or heat neat (sink or stiffener or spreader or transfer) or ground near (plane or film or layer)) with bottom near surface	USPAT	OR	OFF	2004/11/09 20:19
S43	6149	S33 and "257"/\$.ccls.	USPAT	OR	OFF	2004/11/09 20:42
S44	90	S33 and prevent\$3 near warp\$3	USPAT	OR	OFF	2004/11/09 20:43

## EAST Search History

S45	1257	S37 and (257/778 or 257/786 or 257/798)	USPAT	OR	OFF	2004/11/09 20:50
S46	2	"3290564".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:19
S47	1	"4654248".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:20
S48	1	"4893172".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:20
S49	1	"4942076".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:20
S50	1	"5086337".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:20
S51	1	"5216278".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:21
S52	1	"5325265".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:21
S53	1	"5338967".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:21
S54	1	"5473119".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:21
S55	1	"5481136".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:22
S56	1	"5493153".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:22
S57	1	"5572070".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:22
S58	1	"5574630".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:22
S59	1	"5610442".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:22
S60	1	"5714803".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:22
S61	1	"5744863".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:23
S62	1	"5777386".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:23
S63	1	"5786635".PN.	USPAT; USOCR	OR	OFF	2004/11/09 21:23
S64	15	(semiconductor or chip or die or IC) and (interposer or interconnect or redistribution or carrier) with spacer with (ball or bump)	USPAT	OR	OFF	2004/11/09 21:31

## EAST Search History

S65	192	(semiconductor or chip or die or IC) and (interposer or interconnect or redistribution or carrier) with spac\$3 with (ball or bump)	USPAT	OR	OFF	2004/11/09 21:31
S66	94	(molding or encapsulat\$3) with bottom near surface with (adhesive or glue)	USPAT	OR	ON	2004/11/10 22:48
S67	492	(molding or encapsulat\$3) with attach\$3 with (board or "PCB")	USPAT	OR	ON	2004/11/10 22:49
S68	1	"5285352".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:22
S69	1	"5365400".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:22
S70	1	"5455462".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:23
S71	1	"5559369".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:23
S72	1	"5617294".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:23
S73	1	"5642261".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:24
S74	1	"5650593".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:24
S75	1	"5734555".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:24
S76	1	"5736785".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:25
S77	1	"5856911".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:25
S78	1	"5861670".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:25
S79	1	"5877552".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:26
S80	1	"5977626".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:26
S81	1	"6191360".PN.	USPAT; USOCR	OR	OFF	2004/11/10 23:26
S82	0	"6534723".pn. and polyimide with resist	USPAT	OR	OFF	2004/11/10 23:40
S83	1	"6534723".pn.	USPAT	OR	OFF	2004/11/10 23:40
S84	1	"6534723".pn. and polyimide and resist	USPAT	OR	OFF	2004/11/10 23:40
S85	13	174/255 and polyimide with solder near resist	USPAT	OR	OFF	2004/11/10 23:41

## EAST Search History

S86	658	(semiconductor or die or chip or IC) and (interposer or interconnect\$3 or redistribut\$3) with (spacer or pad) with (ball or bump)	USPAT	OR	OFF	2004/11/11 21:48
S87	1	"5229643".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:04
S88	1	"5554887".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:05
S89	1	"5903052".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:05
S90	1	"5920117".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:05
S91	1	"6184580".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:05
S92	1	"6219243".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:06
S93	1	"6259156".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:06
S94	1	"5136365".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:20
S95	1	"5187020".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:20
S96	1	"5375042".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:21
S97	1	"5412539".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:36
S98	1	"5509200".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:37
S99	1	"5518674".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:37
S10 0	1	"5805426".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:37
S10 1	1	"5893765".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:37
S10 2	1	"5905638".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:37
S10 3	1	"5910641".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:37
S10 4	1	"6090633".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:38
S10 5	1	"6326561".PN.	USPAT; USOCR	OR	OFF	2004/11/11 22:38

## EAST Search History

S10 6	298	solder near (resist or mask) with polyimide	USPAT	OR	OFF	2004/11/11 23:19
S10 7	23	S106 and interposer	USPAT	OR	OFF	2004/11/11 23:20
S10 8	4	S106 and interposer with solder near (resist or mask)	USPAT	OR	OFF	2004/11/11 23:20
S10 9	19	S106 and (interposer or interconnect\$3 or redistribut\$3) with solder near (resist or mask)	USPAT	OR	OFF	2004/11/11 23:29
S11 0	1	"6600224".pn. and polyimide and adhesive and dielectric	USPAT	OR	ON	2004/11/11 23:28
S11 1	87	(interposer or interconnect\$3 or redistribut\$3) with adhesive with polyimide	USPAT	OR	OFF	2004/11/12 01:11
S11 2	4267	257/778	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/12 01:43
S11 4	3660	257/712	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/12 13:51
S11 5	2181	257/713	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/12 15:29
S11 6	3456	257/737	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/12 16:31
S11 7	363	257/338	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/12 16:31
S11 8	48835	(interpos\$3 or interconnect\$3 or redistribut\$3) with (reference or ground)	US-PGPUB; USPAT	OR	ON	2005/06/21 03:53

## EAST Search History

S11 9	39061	(interpos\$3 or interconnect\$3 or redistribut\$3) with (reference or ground)	USPAT	OR	ON	2005/06/21 03:54
S12 0	1847	(interpos\$3 or interconnect\$3 or redistribut\$3) with (reference or ground) near plane	USPAT	OR	ON	2005/06/21 09:49
S12 1	506	(interpos\$3 or interconnect\$3 or redistribut\$3) with (reference or ground) near layer	USPAT	OR	ON	2005/06/21 12:10
S12 2	1	"5113315".PN.	USPAT; USOCR	OR	OFF	2005/06/21 10:53
S12 3	1	"5741729".PN.	USPAT; USOCR	OR	OFF	2005/06/21 10:53
S12 4	1	"5851337".PN.	USPAT; USOCR	OR	OFF	2005/06/21 10:53
S12 5	1	"5898217".PN.	USPAT; USOCR	OR	OFF	2005/06/21 10:54
S12 6	1	"5933324".PN.	USPAT; USOCR	OR	OFF	2005/06/21 10:54
S12 7	1	"5959356".PN.	USPAT; USOCR	OR	OFF	2005/06/21 10:54
S12 8	1	"6198635".PN.	USPAT; USOCR	OR	OFF	2005/06/21 10:54
S12 9	1	"6362525".PN.	USPAT; USOCR	OR	OFF	2005/06/21 10:55
S13 0	1	"6479758".PN.	USPAT; USOCR	OR	OFF	2005/06/21 10:55
S13 1	1	"6525942".PN.	USPAT; USOCR	OR	OFF	2005/06/21 10:55
S13 2	1	"20020139571".PN.	US-PGPUB	OR	OFF	2005/06/21 10:57
S13 3	0	(interpos\$3 or interconnect\$3 or redistribut\$3) with stress near relise	USPAT	OR	ON	2005/06/21 11:26
S13 4	178	(interpos\$3 or interconnect\$3 or redistribut\$3) with stress near relief	USPAT	OR	ON	2005/06/21 11:36
S13 5	0	(interpos\$3 or interconnect\$3 or redistribut\$3) with moint\$3 near structure	USPAT	OR	ON	2005/06/21 11:36
S13 6	1131	(interpos\$3 or interconnect\$3 or redistribut\$3) with mount\$3 near structure	USPAT	OR	ON	2005/06/21 11:59



## EAST Search History

S13 7	4795	(interpos\$3 or interconnect\$3 or redistribut\$3) with support\$3 near structure	USPAT	OR	ON	2005/06/21 12:00
S13 8	682	(interpos\$3 or interconnect\$3 or redistribut\$3) with support\$3 near structure with (back or rear or opposite)	USPAT	OR	ON	2005/06/21 12:04
S13 9	1	(interpos\$3 or interconnect\$3 or redistribut\$3) with (polyimide or insulat\$3 or dielectric) with plain with (back or rear or opposite)	USPAT	OR	ON	2005/06/21 12:05
S14 0	20	(interpos\$3 or interconnect\$3 or redistribut\$3) with (polyimide or insulat\$3 or dielectric) with plain	USPAT	OR	ON	2005/06/21 12:07
S14 1	31	(interpos\$3 or interconnect\$3 or redistribut\$3) same (polyimide or insulat\$3 or dielectric) with plain	USPAT	OR	ON	2005/06/21 12:07
S14 2	11	S141 not S140	USPAT	OR	ON	2005/06/21 12:07
S14 3	13925	(interpos\$3 or interconnect\$3 or redistribut\$3) with (spacer or stiffener or thermal near pad)	USPAT	OR	ON	2005/06/21 12:12
S14 4	13868	(interpos\$3 or interconnect\$3 or redistribut\$3) with (spacer or stiffener )	USPAT	OR	ON	2005/06/21 12:12
S14 5	0	(interpos\$3 or interconnect\$3 or redistribut\$3) with (spacer or stiffener or thermal near pad) and (spacer or stiffener or thermal near pad) with soder near mask	USPAT	OR	ON	2005/06/21 12:13
S14 6	3617	(interpos\$3 or interconnect\$3 or redistribut\$3) with (spacer or stiffener or thermal near pad) and (spacer or stiffener or thermal near pad) with (rear or back or opposite)	USPAT	OR	ON	2005/06/21 12:13
S14 7	13260	(interpos\$3 or interconnect\$3 or redistribut\$3) with spacer	USPAT	OR	ON	2005/06/21 12:13
S14 8	701	(interpos\$3 or interconnect\$3 or redistribut\$3) with ( stiffener or thermal near pad)	USPAT	OR	ON	2005/06/21 12:33
S14 9	3341	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with ( spacer)	USPAT	OR	ON	2005/06/21 12:34

## EAST Search History

S15 0	99	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with ( spacer) with pads	USPAT	OR	ON	2005/06/21 12:43
S15 1	1	"5136365".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:35
S15 2	1	"5187020".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:35
S15 3	1	"5375042".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:36
S15 4	1	"5412539".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:36
S15 5	1	"5509200".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:36
S15 6	1	"5518674".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:36
S15 7	1	"5805426".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:36
S15 8	1	"5893765".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:37
S15 9	1	"5905638".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:37
S16 0	1	"5910641".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:37
S16 1	1	"6090633".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:37
S16 2	1	"6326561".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:37
S16 3	1	"5893765".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:38
S16 4	1	"5905638".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:38
S16 5	1	"5910641".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:38
S16 6	1	"6090633".PN.	USPAT; USOCR	OR	OFF	2005/06/21 12:38
S16 7	469	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with ( adhesive) with pads	USPAT	OR	ON	2005/06/21 12:43
S16 8	64	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with solid near (plain or layer)	USPAT	OR	ON	2005/06/21 13:12

## EAST Search History

S16 9	10	"6525942"	USPAT	OR	ON	2005/06/21 12:46
S17 0	352	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with (ground or thermal) near (plain or layer)	USPAT	OR	ON	2005/06/21 13:07
S17 1	0	"6312266".pn. with (cover\$3 or coat\$3 or attach\$3)	USPAT	OR	ON	2005/06/21 13:07
S17 2	32990	"6312266".pn. spacer with (cover\$3 or coat\$3 or attach\$3)	USPAT	OR	ON	2005/06/21 13:08
S17 3	0	"6312266".pn. and spacer with (cover\$3 or coat\$3 or attach\$3)	USPAT	OR	ON	2005/06/21 13:08
S17 4	0	"6312266".pn. and spacer with (cover\$3) with (polyimide or epoxy)	USPAT	OR	ON	2005/06/21 13:09
S17 5	91	spacer with (cover\$3) with (polyimide or epoxy)	USPAT	OR	ON	2005/06/21 13:09
S17 6	0	"6312266".pn. and spacer with underfill	USPAT	OR	ON	2005/06/21 13:09
S17 7	1	"6312266".pn. and spacer with epoxy	USPAT	OR	ON	2005/06/21 13:10
S17 8	1	"6312266".pn. and spacer with adhesive	USPAT	OR	ON	2005/06/21 13:10
S17 9	0	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with spacer with under near fill and under near fill with (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 13:12
S18 0	4	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with spacer with (under near fill or underfill) and (under near fill or underfill) with (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 13:13
S18 1	5	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with spacer with (under near fill or underfill or attaching) and (under near fill or underfill or attaching) with (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 13:14

## EAST Search History

S18 2	27	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with spacer and (under near fill or underfill or attaching) with (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 13:16
S18 3	36	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) same spacer and (under near fill or underfill or attaching) with (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 13:27
S18 4	9	S183 not S182	USPAT	OR	ON	2005/06/21 13:16
S18 5	30	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) and spacer and (under near fill or underfill or attaching) with (epoxy or polyimide) and (under near fill or underfill or attaching) with board	USPAT	OR	ON	2005/06/21 13:22
S18 6	0	(semiconductor or die or dice or chip or IC) and (carrier or module) with spacer and (under near fill or underfill ) with (epoxy or polyimide) and (under near fill or underfill ) with board	USPAT	OR	ON	2005/06/21 13:23
S18 7	1	(semiconductor or die or dice or chip or IC) and (carrier or module) with stiffener and (under near fill or underfill ) with (epoxy or polyimide) and (under near fill or underfill ) with board	USPAT	OR	ON	2005/06/21 13:24
S18 8	41	(semiconductor or die or dice or chip or IC) and (carrier or module) with spacer with board and (mold\$3 or encapsulat\$3 or resin ) with (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 13:24
S18 9	28	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with spacer with board and (mold\$3 or encapsulat\$3 or resin ) with (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 17:03
S19 0	1	"6114757".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:34
S19 1	1	"6175517".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:34

## EAST Search History

S19 2	29	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with ground near plane with (protective or cover\$)	USPAT	OR	ON	2005/06/21 15:13
S19 3	32	"5901041"	USPAT	OR	OFF	2005/06/21 14:49
S19 4	1	"6696748".pn.	USPAT	OR	OFF	2005/06/21 15:03
S19 5	1	"4887148".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:50
S19 6	1	"5627407".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:50
S19 7	1	"6258624".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:50
S19 8	1	"6291899".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:50
S19 9	1	"5432114".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:57
S20 0	1	"5477082".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:57
S20 1	1	"5834848".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:57
S20 2	1	"5834848".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:59
S20 3	1	"5895965".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:59
S20 4	1	"5900675".PN.	USPAT; USOCR	OR	OFF	2005/06/21 14:59
S20 5	1	"5926379".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:00
S20 6	1	"5926708".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:00
S20 7	1	"5953599".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:00
S20 8	1	"5990418".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:00
S20 9	1	"6025650".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:00
S21 0	1	"6078506".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:01
S21 1	1	"6294831".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:02

## EAST Search History

S21 2	1	"6316829".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:03
S21 3	1	"6384487".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:03
S21 4	40	"5834848"	USPAT	OR	OFF	2005/06/21 15:13
S21 5	1	"5473512".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:09
S21 6	1	"5640051".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:09
S21 7	1	"5729440".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:09
S21 8	1	"5731630".PN.	USPAT; USOCR	OR	OFF	2005/06/21 15:09
S21 9	4881	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with (buffer or stabiliz\$3)	USPAT	OR	ON	2005/06/21 15:13
S22 0	39	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with (buffer or stabiliz\$3) near (plate or plane or layer) with (underfill or adhes\$3 or resin or epoxy or polyimide)	USPAT	OR	ON	2005/06/21 15:16
S22 1	209	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with (buffer or stabiliz\$3) and (buffer or stabiliz\$3) with (underfill or adhes\$3 or resin or epoxy or polyimide)	USPAT	OR	ON	2005/06/21 15:25
S22 2	219411	"5834848" and (interpos\$3 or interconnect\$3 or redistribut\$3) and (buffer or stabiliz\$3) and (buffer or stabiliz\$3) with (underfill or adhes\$3) and (adhesive or underfill) (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 15:26
S22 3	1	"5834848" and (interpos\$3 or interconnect\$3 or redistribut\$3) and (buffer or stabiliz\$3) and (buffer or stabiliz\$3) with (underfill or adhes\$3) and (adhesive or underfill) with (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 15:26

## EAST Search History

S22 4	3	"5834848" and (interpos\$3 or interconnect\$3 or redistribut\$3) and (buffer or stabiliz\$3) and (buffer or stabiliz\$3) with (underfill or adhes\$3)	USPAT	OR	ON	2005/06/21 15:27
S22 5	3	"5834848" and (interpos\$3 or interconnect\$3 or redistribut\$3) and (buffer or stabiliz\$3) and ( adhes\$3) with (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 16:06
S22 6	6999	(semiconductor or die or chip) and flux with material	USPAT	OR	ON	2005/06/21 16:07
S22 7	958	(semiconductor or die or chip) and flux with (dielectric or insulating)	USPAT	OR	ON	2005/06/21 16:07
S22 8	94	(semiconductor or die or chip) with flux with (dielectric or insulating)	USPAT	OR	ON	2005/06/21 16:08
S22 9	6	(semiconductor or die or chip) with flux with contain\$3 with (dielectric or insulating)	USPAT	OR	ON	2005/06/21 16:09
S23 0	5	(semiconductor or die or chip) with flux with made with (dielectric or insulating)	USPAT	OR	ON	2005/06/21 16:10
S23 1	11	(semiconductor or die or chip) with flux with made with (resin or epoxy)	USPAT	OR	ON	2005/06/21 16:12
S23 2	1	(semiconductor or die or chip) with flux near material with (resin or epoxy)	USPAT	OR	ON	2005/06/21 16:13
S23 3	0	(semiconductor or die or chip) with liquid near flux near material with (resin or epoxy)	USPAT	OR	ON	2005/06/21 16:13
S23 4	0	(semiconductor or die or chip) with liquid near flux with (resin or epoxy)	USPAT	OR	ON	2005/06/21 16:14
S23 5	11	liquid near flux with (resin or epoxy)	USPAT	OR	ON	2005/06/21 16:14
S23 6	22	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with underfill with board and (underfill ) with (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 17:40

## EAST Search History

S23 7	186	(semiconductor or die or dice or chip or IC) and (interpos\$3 or interconnect\$3 or redistribut\$3) with adhesive with board and (adhesive ) with (epoxy or polyimide)	USPAT	OR	ON	2005/06/21 18:22
S23 8	407	257/729	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 18:28
S23 9	4481	257/778	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 18:29
S24 0	449	257/729	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/27 19:25